

Title (en)

Two-speed gearing especially series gear for auxiliary aggregates in vehicles

Title (de)

Zweigang-Getriebe, insbesondere Vorsatzgetriebe für Nebenaggregate in Kraftfahrzeugen

Title (fr)

Transmission à deux vitesses, notamment boîte de vitesses en série pour unités auxiliaires en véhicules

Publication

**EP 0992707 A3 20010516 (DE)**

Application

**EP 99119550 A 19991001**

Priority

DE 19846183 A 19981007

Abstract (en)

[origin: EP0992707A2] The two-stage gear has a drivable input shaft and a driven shaft, the two shafts being connected by a planetary gear. The planetary gear has a planet carrier (24) non-rotatively arranged on the drive shaft (18) which supports at least one inner planet wheel (26) which rolls on a sun wheel (12). The inner planet wheel is coupled with a pivotably located outer planet wheel (34) around a rotary axis. The outer planet wheel rolls on a hollow wheel non-rotatively arranged on the driven shaft. The hollow wheel has outer and inner toothed rims (40,42). The outer planet wheel, dependent upon an inner speed of the drive shaft, rolls on the outer toothed rim or the inner toothed rim of the hollow wheel.

IPC 1-7

**F16H 3/54**; **F02B 67/04**

IPC 8 full level

**F16H 3/58** (2006.01); **F02B 67/04** (2006.01); **F16H 3/54** (2006.01); **F16H 3/56** (2006.01); **F16H 61/02** (2006.01); **F16H 59/42** (2006.01)

CPC (source: EP US)

**F16H 3/54** (2013.01 - EP US); **F16H 3/56** (2013.01 - EP US); **F16H 61/0295** (2013.01 - EP US); **F16H 59/42** (2013.01 - EP US)

Citation (search report)

- [A] US 4408502 A 19831011 - KRAUS CHARLES E [US]
- [A] EP 0548955 A1 19930630 - TOCHIGI FUJI SANGYO KK [JP]
- [A] US 5360380 A 19941101 - NOTTLE MURRAY K [AU]
- [A] AT 129646 B 19320910 - FICHTEL & SACHS AG [DE]
- [A] EP 0507431 A1 19921007 - BORG WARNER AUTOMOTIVE [US]

Cited by

DE102018218121A1; CN108916328A; CN108999938A; CN109099116A; US6495701B1; WO2013045118A1; WO2007042511A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0992707 A2 20000412**; **EP 0992707 A3 20010516**; **EP 0992707 B1 20031217**; DE 19846183 A1 20000427; DE 59908082 D1 20040129; JP 2000110899 A 20000418; US 6162143 A 20001219

DOCDB simple family (application)

**EP 99119550 A 19991001**; DE 19846183 A 19981007; DE 59908082 T 19991001; JP 28580899 A 19991006; US 41414199 A 19991007